

CLAIMS

1       1. A musical-instrument controller comprising an array of note  
2 triggers assigned respective notes, first, second, and third of said note  
3 triggers converging at a first convergence point so as to define a triad.

1       2. A musical-instrument controller as recited in Claim 1 wherein  
2 said triad can be triggered at said first convergence point.

1       3. A musical-instrument controller as recited in Claim 1 wherein a  
2 fourth note trigger of said array converges at a second convergence  
3 point with said first note trigger and said third note trigger to define a  
4 minor triad, said first, second, and third note triggers defining a major  
5 triad at said first convergence point.

1       4. A musical-instrument controller as recited in Claim 3 wherein  
2 said major triad can be triggered at said first convergence point and  
3 said minor triad can be triggered at said second convergence point.

1       5. A musical-instrument controller as recited in Claim 3 further  
2 comprising a first interval trigger located at least partially between  
3 said first note trigger and said second note trigger and a second  
4 interval trigger located at least partially between said first note trigger  
5 and said fourth note trigger, said first interval trigger triggering a  
6 major third interval and said second interval trigger triggering a minor  
7 third interval.

1       6. A musical-instrument controller as recited in Claim 5 further  
2 comprising a third interval trigger located at least partially between  
3 said first and third note triggers, said third interval trigger triggering a  
4 perfect fifth interval.

1       7. A musical-instrument controller as recited in Claim 4 wherein  
2 said array is a hexagonal array and said first note trigger is adjacent to  
3 six note triggers.

1       8. A musical-instrument controller as recited in Claim 4 wherein  
2 said array is a rectangular array.

1       9. A musical-instrument controller as recited in Claim 8 wherein  
2 said array has rows of interleaved chromatic progressions offset from  
3 each other by a half of a perfect fifth.

1       10. A musical-instrument controller as recited in Claim 8 wherein  
2 said array is an offset rectangular array.

1       11. A musical-instrument controller as recited in Claim 1 further  
2 providing motion sensing so that when a force initially contacts said  
3 first note trigger and then executes a motion to said second note  
4 trigger while maintaining contact with said array, said motion causes a  
5 change in the value of a continuous controller and does not trigger a  
6 note associated with said second note trigger.

1       12. A musical instrument controller as recited in Claim 11 wherein  
2 said array is two dimensional and said motion sensing senses motion  
3 in each of said array's dimensions.

1       13. A musical instrument controller as recited in Claim 11 wherein  
2 said array has a perimeter, said motion sensing continuing  
3 monotonically when following a motion vector that reverses a motion  
4 vector component at said perimeter.

1       14. An musical instrument controller having an array of note  
2 triggers, said note triggers including first and second note triggers,  
3 said controller providing motion sensing so that when a force initially  
4 contacts said first note trigger and then executes a motion to said  
5 second note trigger while maintaining contact with said array, said  
6 motion causes a change in the value of a continuous controller and  
7 does not trigger said second note associated with said second note  
8 trigger.

1       15. A musical instrument controller as recited in Claim 14 wherein  
2 said array is two dimensional and said motion sensing senses motion  
3 in each of said array's dimensions.

1       16. A musical instrument controller as recited in Claim 14 wherein  
2 said array has a perimeter, said motion sensing continuing  
3 monotonically when following a motion vector that reverses a motion  
4 vector component at said perimeter.

1       17. A method of playing a musical instrument comprising  
2 triggering a first triad at a first convergence point for first, second, and  
3 third note triggers respectively assigned the component notes of said  
4 triad.

1        18. A method of playing a musical instrument as recited in  
2        Claim 17 further comprising triggering a minor triad at a second  
3        convergence point for said first note trigger, said third note trigger,  
4        and a fourth note trigger, said first triad being a major triad.